From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: ae4ic@nr.infi.net (BOB KELLOGG)
Subject: [4415] Age old question
Message-ID: <199602180340.WAA18352@mh004.infi.net>

Gang,

What do you think? Is my NW8020 home brew?

Sorry I asked already,

CUL,
Bob Kellogg, AE4IC
Prolably, but not nececelery. - Benny Hill

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: "DONALD A. COLEMAN (EXT. 2850)" <DACOLEMAN@fair1.fairfield.edu>
Subject: [4399] Bilatteral xverter
Message-ID: <01I1BFIJ1H9U8Y760M@fair1.fairfield.edu>

Gm, om's, yl's, etc.

Can somone give me a clue as to what a bilatteral transverter might be? It strikes me that such a device, if not too difficult to get parts for and put together, might be good for exploring bands you haven't got on that old boat anchor, but at qrp levels. How about that?

72.9294118

Don Coleman, W1VOQ

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: aa7qy@primenet.com (Roger Hightower)
Subject: [4407] Code Practice
Message-ID: <199602171907.MAA11207@usr5.primenet.com>

Just got back from our monthly VE session, and we had five candidates take the code test (4/20 and 1/13). The only one that passed was the only one that regularly gets on the bands and has CW QSO's. I see this every month....those that use it can increase their speed comfortably, those that don't are hoping for
a miracle.

Congratulations to QRP-L'er Steve Thompson, KJ7DN on passing the 20 WPM code.

72/73, de Roger, AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: km@PACT.ORG.PE (Kris Merschrod)
Subject: [4402] COPYright
Message-ID: <m0tnpCH-000OKbC@rcp.net.pe>

Well, now that Bernard and Preston have started and interestinhg thread, ONe kicking off with the letter and the spirit of the law and the other following with the s[pirit of it. I'd just add the ethical aspect to it summed up by the word "plagiarism."

It just ain't decent to copy.

Kris
OA4DBO

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [4388] Country List Wanted
Message-ID: <199602171113.LAA21348@chuck.dallas.sgi.com>

Gang,

Another one of those I had it and I lost it stories.

A few years ago the ARRL had on their infoserver a list of the countries. The first of the listing went something like:

i italy eu -
is0,im0 sardinia eu -
j2 djibouti af -
j3 grenada na -
j5 guinea-bissau af -
j6 st. lucia na -

j7 dominica na -
j8 st. vincent na -
ja-js japan as -

where you got the call prefix(es), country, and continent

I had at one time the entire list. But, I, in my infinite wisdom decided to make up some practice CW tapes and run around the the FO-mobile with this tape running for practice.

Ever come up to a stop light in the summer time and the kid(s) in the car next to you are playing some tape at a very very loud volume? Try this one - crank up a CW tape!! :-) It's even fun to come up to a toll booth with it playing. Well I leave the rest to your imagination.

So I'm looking at my files this a.m. while listening to 40M contest in progress. I know that at 4 a.m. the band was never dead, just noone on it. Worked V31EV, P49V, YV1OB, and others without too much difficulty. Stan, N6ULU, is probably racking up the points on this one. Hi Stanley. :-)

My file now has only 161 lines in it. So I've lost quite a few countries. So, before getting out the tape and copying the stuff back in, going to ask the group if someone has the file? I'll format it in tabular form and put it on the server if someone does.

The reason for this trouble is that the ARRL has decided, in order to sell at $2-4 a copy the country list, to take the list off the server. At Tucker's here in Dallas I see two year old lists and no current lists. Either it is too popular or not popular at all. Haven't figured that one out yet.

dit dit es tnx

Oh, I get asked this and forget to post it.

Q. How do you generate practice tapes?
A. I use an SGI Workstation. It has a TI DSP in it for stereo audio. Can generate CD audio quality output and DAT. I use the 44.1K rate and use a program that I wrote from scratch to generate tapes at any speed and any tone. Reads in ASCII file and out comes the CW with very very high S/N ratio, since there is no noise between elements. As soon as CD makers get below $500 then I'll make CDs. :-)

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: DEk@gnn.com (David Ek)
Subject: [4382] CW practice from a newbie perspective
Message-ID: <199602170555.AAA08130@mail-e2a-service.gnn.com>

Hi, All -

First of all, let me thank everyone who responded to my plea for advice about

whether or not to start out (as a new ham) in QRP. The voting was split about

50-50, and I received a lot of valuable perspectives on the subject. I'm mulling the issue on the side now as I prepare for the license exams. There aren't any hamfests or swap meets around here until April or so, anyway, and I'm still nervous about buying a rig sight unseen from someone across the country (not because I'm afraid of getting taken--I just don't know the equipment well enough yet). Maybe I'll build a QRP rig after all (hmm...). At any rate, I'm aiming for an exam session in early March, and I'm going to take as many of the tests as I can cram for between now and then.

I've been using my computer to practice CW. The computer tells me I'm up to about 11 WPM. I'm doing Farnsworth, of course, with the letter rate set at 22 WPM. I've noticed two things (this is where I throw my two cents in):

(1) I can't copy by typing the letters; not only do I have to translate Morse to alphabet, but I also have to translate alphabet to keyboard. Copying to paper doesn't require the extra step, because I don't have to think about how to write the letter. The odd part is that I'm a pretty good typist (I'm a programmer, no less!). I think the difference is that your fingers get trained to type words, not letters.

(2) I noticed a marked increase in my copy speed when I *turned up the CW speed on the computer* (duh!). If I push, I improve. What's holding me back at this point is that I don't automatically recognize every character from its sound--I have to think about some of them. Only lots of repetitions will cure that.

Here's a question for y'all. If a dot is one unit long, a dash is three units, the space between dots & dashes is one unit, the space between characters is three units, and the space between words is seven units, is there a standard number of units in a word? Seems like I saw 35 someplace.

Dave Ek

****** <-- this space still reserved for call sign...

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [4389] DXCC List
Message-ID: <199602171130.LAA21390@chuck.dallas.sgi.com>

Never mind. I found it. All 400 or so lines.

Stay tuned for a posting of how to get your own
copy.

dit dit
--
Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [4392] DXCC List
Message-ID: <199602171310.NAA21536@chuck.dallas.sgi.com>

Gang,

Well, within a few minutes after finding the list I
created a PostScript file with 6.5 pages. Tabular
format with

```
-------------------------------------------------
|Prefix|Country|Cont|160|80|40|30|20|17|15|12|10|6|
-------------------------------------------------
```

I have given the file dxcc.ps to Jim E. keeper of
the flame and he will announce when the file will
be available and how to get it. You will need a
PostScript printer.

Please please feel free to print this puppy off and
make copies and give to all the members of your local
QRP Club and even the QRO Club. Pass it on.

I will update when all the DXCC guru's point the errors/omissions/etc. Some of the countries have been deleted but there are enough people on the list that may have a valuable card from same.

I know that I will keep the list near the station to look up those signals heard both day and night from exotic lands.

Now the squares for each band are small and you don't have room to write a call in there. Sorry. I leave it as an exercise for the student to come up with a notation for worked/QSL received notation. I could have put two little boxes in each, but that was going to far. I've already gone too far as it is. :-)

FYI   es dit dit

soon to be K5FO/8
--
Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [4393] DXCC One More Time
Message-ID: <199602171323.NAA21655@chuck.dallas.sgi.com>

Gang,

If you are in a hurry, and you have ftp access, then

ftp ftp.lehigh.edu
cd /pub/listserv/qrp-l/incoming
get dxcc.ps

138,063 byte PostScript file. Print to your PostScript printer and there you have it.

As soon as people have corrections/additions/ useful changes I'll put in a new version and announce.

dit dit

--
Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: "Brian L. Lewis" <76500.1621@compuserve.com>
Subject: [4400] Filter out harmonics?
Message-ID: <960217161704_76500.1621_HHE58-2@CompuServe.COM>

I just completed my first Homebrew transmitter! It is a very simple 1 transistor (2n3053) rig. I tracked down the parts and wound my first coil. And it works. It puts out about 500-750 mw at 7.040 mhz. Very exciting.

However, it also puts out a good signal on 14.080, 21.120 and 28.160 (and above probably). Can anyone suggest a filter circuit to solve this problem. Or a source to find a schematic of such a circuit?

Thanks for your help!

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: RobCap@aol.com
Subject: [4396] HW-9: to build or not to build
Message-ID: <960217090101_224402918@mail04.mail.aol.com>

Hi Folks-

I've been fortunate to just acquire an unbuilt HW-9 along with three station accessories, also unbuilt.

As mentioned on the QRP-L, I decided to leave my HW-8 unbuilt under the theory that it's almost 25 years old, is worth preserving the Heath legacy, and wouldn't be that hot a radio when finished.

However, I plan to heat up the iron and commence building the HW-9 right away. It's only a few years old (so I don't feel guilty about building it), and the HW-9 is a good little rig that'll get plenty of air time.

Once I make some progress building the HW-9, I plan to sell my other HW-9. It's in mint condition, and was recently sent off to RTO electronics for

complete reconditioning. It's putting out 5-8 watts on all eight bands, and has a good little receiver.

73,

Rob

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Robert Williams <rwill@seminole.saccw.cc.ar.us>
Subject: [4413] Modifying the Sony SW1 for CW reception
Message-ID: <Pine.LNX.3.91.960217200931.3124B-100000@seminole.saccw.cc.ar.us>

Hello,

I have recently bought a used SW1 receiver and would like to add a fine-tuning control (it tunes in 5 KHZ steps) and a BFO circuit so I can use it for reception of SSB/CW. It runs off of 3 Volts and is pretty darn sensitive. I would also like to narrow up the IF a little. I have secured the Service manuals for the SW1 and the ICF-7600 and have compared the schematics. The two radios are almost identical except that the 7600 has the BFO and fine-tuning built-in.

Still, I feel a little uncomfortable diving in and would appreciate the input/advice of a seasoned radio hacker. Is there anyone who would be willing to give advice in the design of the Mod; I would be glad to provide copies of the schematics via mail.

72

Robert S. Williams -KD4ZPH

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Craig LaBarge <74740.3166@compuserve.com>
Subject: [4398] Monday Nite Fox!
Message-ID: <960217154859_74740.3166_EHB105-1@CompuServe.COM>

Hey There!

Just a friendly reminder that it's my turn to be the FOX again on Monday night (EST). I'll be on 7.040 (+/-) from 2000 to 2200 EST. In terms of UTC, that would be 0100Z - 0300Z February 20. I don't mean to slight the

Novice/Tech folks by not operating on 7.110, but the equipment I'll be using won't cover it. My apologies.

As you might recall, I'm one of those limited-space, low-profile, covert operating QRPers, so you folks really have your work cut out for you. Of course, during my last time out, some of you gave me my first 40 meter, coast-to-coast QRP QSOs. QRPers sure are good listeners!

So, once again...crank up the gain and switch in those filters and I'll see you all on Monday!

73, Craig WB3GCK

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: ae4ic@nr.infi.net (BOB KELLOGG)
Subject: [4414] NW80/20 - Epilogue
Message-ID: <199602180340.WAA30359@mh004.infi.net>

You guessed it fellas, the story's not over.

Today is the saturday of the ARRL International DX contest. Hardly the time to try out a new QRP rig - the band is full of QRO contesters.

But we hook it up through our tuner to the trusty G5RV dipole and tune -- and tune -- and tune. It just won't do it. The SWR needle has a life of its own! Tuning causes the needle to drop some, then suddenly go wild again.

We were afraid all of that power was too good to be true. It must be mostly parasitics or some extraneous output of some kind.

Let's look at the scope picture of the waveform. Sure enough, at TP4, there is a signal, but it couldn't be called a sign wave. Watching the scope, we adjust T5 again, and the picture improves, but it's best with the slug against the top of the can again. Well, we know that doubling the capacity of C60 was too much, so let's just add 10pf this time. OK! The picture improves with the slug back in the center of its travel. But the picture will never win an Oscar.

Hmmmm. I've subbed a rather high frequency PA. It's probably got way too much gain for this application. It probably wants to run away with itself. (On the other hand, the NTE replacement is the same as the original, so it can't be too bad) Don't designers put Ferrite Beads in the circuit to help control parasitics?? Roy must have thought about that, or there wouldn't be a place for one on this board. Let's try it!

Put a Ferrite Bead in the designated space in the Base lead of Q8. Hook up the scope, and retune. Well, now, isn't that a pretty sine wave!! ALL RIGHT...!!

This time, we can tune our antenna. LET'S GET THIS RIG ON THE AIR!!

First, there are a few details to clean up. Following the manual, we set the sidetone.

We adjust the tuning range. The rig tunes 200 KHz, but the CW portion of the 40 meter band is just 150 KHz. I've been listening to the speaker as I worked on the rig, and it would be nice to separate the stations a little. So, we remove two plates from the rotor of C35 and reset the VFO. OH, MAN, I knew something would go right eventually! The range is now right on 7.000-7.150!

Just for fun, we check our power output. It's a little over five watts. The Gel cell reads 11.6 volts. This is looking FINE! Using R14, the level control, we drop the power back to just under 5 watts.

Are you ready? We hook up the keyer, and tune across the band trying to find someone that's not in the contest today. No one. Well, alright, then, let's make this first contact one to remember. EA5BY (Spain) is calling CQ TEST. There's a whole crowd of stateside contesters around him. I listen very carefully, matching my sidetone to his exactly.

He finishes, and I answer "DE AE4IC AE4IC AE4IC".
He says, " - 4IC?"   -- !!!YES!!!
Me: "DE AE4IC AE4IC AE4IC"
He: "AE4IC?"
Me: "YES DE AE4IC 5NN NC NC BK
He: "AE4IC 5NN KW TU"

And that's all there is to it. This QRP stuff is a piece of cake.

Now guys, the rig is spread out all over my workbench. (You didn't think it was in the case, did you?) While working with it this afternoon, I've made some decisions. First, I have an audio filter, which I intended to install. I think I'm going to hold off on that. The VBF works pretty darned well. Let's learn to use it first. Second, I had no intention of using a speaker with this rig. But, the temporary speaker worked so well, I'm going to install it.
I'll probably do some more tweaking here and there, but now that I'm POSITIVE IT'S WORKING, we'll install it in the case.

Would I go through this again? Sure would! This rig just cost me $75 plus a few bucks for shipping, a case and jacks. Its performance appears as good or better than advertised. Early on, I decided to build it without any

help, and I did. It was a great experience.

Bob Kellogg, AE4IC
Prolably, but not nececelery. - Benny Hill

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: ae4ic@nr.infi.net (BOB KELLOGG)
Subject: [4383] NW80/20 - Part VI
Message-ID: <199602170557.AAA31722@mh004.infi.net>

Well, gang, LET'S GET THIS RIG ON THE AIR!

We have no power output. Let's check the voltage on Q8 again. HURRAH!! we've got 14.6 volts on the Collector! But still no power ouput. Hmmmm. Alright, let's see if we can follow the transmit signal from the beginning until it stops.

The first real transmit stage is U8, the transmit mixer. U8 subtracts the VFO signal (and we know that works) with a signal generated by a Y6, a crystal oscillator operating at 12 MHz in my rig to yield 7 MHz. I get out my scope, and connect it to pin 6 of U8, key the rig and see a beautifully formed sine wave. Just what I wanted to see!

The next easy place to check is TP3, which is just after the buffer (I guess) and the driver stages. Now I get a funny picture. It looks like every odd cycle is at about half the voltage of the even cycles. We adjust T4 and T5. They affect the shape some, but when adjusted for maximum voltage (and therefore power) we still have the funny shape.

I wonder if we're on frequency? We tune the receiver across the band to see if we recognize anything. Here's some guy sending very good code, and he spells out every word, even "and". -- Sure enough, it's W1AW. So, I know the receiver is at 7.050 MHz. If I key the transmitter, it should be around there somewhere. WHAT!!?? The frequency counter reads 14.1 MHz!! I'm doubling in one of these stages!! No wonder there's no power output! The final filter would never pass a 14 MHz signal.

What could cause the frequency to be too high? Not enough inductance or capacitance in a tuned circuit. Hmmm. These inductances are factory made, so I've probably got another capacitor problem. The most likely capacitor is C60, in parallel with T5 primary. And look, how convenient! -- R32, also in parallel with T5 primary is unused. I can use those lands to add antoher capacitor in parallel. I try 33pf and retune T5 while looking at the waveform on the scope. HOT DIGGITY! it almost straightens out. Check the frequency -- it's 7050!! And you guys thought I was in a hole I couldn't

get out of! HA! I laugh! Try 56pf and the sine wave is as pretty as any you've ever seen. HA! again.

Check the power output. None. :-(But, we're pushing the problem into a corner now. Put the scope on TP4, and see not much of a signal, more like noise.

We have the proper DC voltage on Q8, but still no power. The signal is just not getting there. Well, lets check for continuity around Q8. The Emitter should be grounded. It is. The Collector should go to +12v, and the resistance measures 132 ohms. I believe that's a familiar number. The Base goes through the secondary of T5 to ground, so it should appear grounded -- but it doesn't. It's open. Oh, oh, T5 secondary is open.

Now, I have two choices. I can explain the problem to Roy, and I know he'll get me another transformer in two or three days. Or, I can remove the transformer and try to rewind it myself. LET'S GET THIS THING ON THE AIR!!

With the case removed it was easy to see the hair-like wire of the secondary had been melted like fuse wire near both terminals. I carefully removed the remaining wire, counting the turns, and replaced the secondary with a hair plucked from my own head. (just kidding, I had some wire that looked about the right size)

Replaced the transformer, and checked with the scope at TP3 and TP4, adjusting T4 and T5 again. That beautiful sine wave appeared at both points. The frequency counter verified we were still on frequency. ALL RIGHT!! We can't be stopped, now!

Well, one little thing. The T5 slug is pushing against the top of the can again. Let's remove the 56pf that we added. Yep, might have known it, now T5 tunes with the slug midway.

OK, let's verify that we've got power, and get this thing in it's case. But, there's NO POWER.... The problem has been pushed right to Q8. Now what...?

How do I check a 2SC1678 final PA transister? Remove it and measure resistances between pins? The E-C measures 1800 ohms in either direction Hmmmm. A good semiconducter junction would be like a diode and measure differently from each direction. ?? I think. Let's measure some other PAs. All measure over 200k, any combination of pins.

Well, It's time to sacrifice my old CB. It has a 2SC1306 PA in a T220 case. Sorry, old boy, but my NTE semiconductor book says the replacement for both transisters is NTE 235. That's good enough for me.

Replace the PA, (just as a precaution, we use a heat sink) and check for

power.
WHOA!!! WE'RE PINNING MY HOME BREW METER that's set up for 5 watts!! Well, I'm GRINNING now! (just a pinnin' and a grinnin') Hook up the OHR wattmeter, set it on the ten watt scale, and pin that, too! Cut back on R14 and we're still pinning the meter. Man, I wanted more power, but not QRO! Remove my power supply, and connect to the gel cell (around 12.7v) and finally it's down to 5 watts. Whew!

Well, dear readers, you can relax, now. All parts of the transceiver are working. I suspect there are some loose ends to clean up, and of course, the final tuning. One thing for sure, I'm going to do all I can to it before I put it in its case.

Bob Kellogg, AE4IC
Prolably, but not nececelery. - Benny Hill

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Harvey D Winters <ve1hdw@fox.nstn.ca>
Subject: [4394] Test as you go
Message-ID: <1.5.4b11.16.19960217092331.285f8144@fox.nstn.ca>

Hello all:

Not to long ago I seen someplace a qrp kit
that you tested as you were building the
stages.Could anyone please email me the
information.

Thanks in advance

72/73 de Harvey

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: litigate@mi.net (litigate)
Subject: [4395] Yaesu 990 QRP/ALC Circuit
Message-ID: <199602171346.JAA21748@itchy.mi.net>

I use my Argonaut 509 and a Yaesu FT-990 for QRP. Unfortunately, the 990 won't go much below 10 watts even with the drive off. I've been told that its fairly simple to fiddle with the alc to reduce power as far as I want. What's the story on this? Someone mentioned a QST write-up awhile back. Any radio-specific info would be appreciated. Thanks. de Rick VE9HF.

****
* Rick Williams VE9HF *
* 472 Broad St.   *
* Fredericton, NB   *
* E3A 5L1 CANADA   *
****

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: kellner@usa.acsys.com (Richard G. Kellner)
Subject: [4385] [4346] Re: QST construction article
Message-ID: <9602170654.AA14730@usa.acsys.com>

> I've waited long enough but here it goes.
>
> I notice that no said anything about the microprocessor based construction
> article in the latest QST....The author has made the hex code code available
> at an ftp site for those of use who can program 6805J1's.
>
> Yippeee!
>
> Brian AE9K

I bought a 7008 DDS chip (it's got a DAC in the same chip) to use as a VFO for my miniR2/T2/LM2 6m QRP rig. Also, I'll try it as an alternate plug-in synthesized VFO for my Sierra and Cascade. At any rate, I had been toying with various ways to tune it. I didn't want to require a PC hanging on it, although I do want to optionally tune it via a PC port. The QST article gives me the perfect solution. I'll be able to take that design and modify the circuit and code to fit my own needs, and I won't have to develop the whole thing from scratch.

In my opinion, the value of having source code is that it both lets you modify the project without starting from scratch, and lets you see how someone else did it and thus gives you ideas for use in the future. Without the source code, what you got is what you got. On the one hand, I certainly understand that most people want to keep their source code to themselves, and I have no problem with that. On the other hand, I think WB0VNE showed what in my mind is the true amateur spirit by sharing everything with all of us, and for that I thank him.

73, Rich W5RXP

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: kellner@usa.acsys.com (Richard G. Kellner)
Subject: [4384] [4368] Re: 49er Info
Message-ID: <9602170621.AA14689@usa.acsys.com>

> I left the flyer at home and can only find his address here at work.
> It is: Buckeye Electronics
>   10213 Columbus Grove Rd.
>   Bluffton, OH 45817
> email: buckeye@alpha.wcoil.com
>
> Standard disclaimer applies: Even if he paid me to say nice things,
> I'd still deny it and plead innocence.
>
> If you do order from him, please let me know how his service and
> parts availability is.
>
> Paul NA5N
>
I ordered from Buckeye a few months ago. I didn't order any NE602s
but I did get some MPF102s, RF xstrs, toroid and wire assortments.
They were quick and the parts seem to be high quality, and very reasonably
priced. The only unusual thing was that I used some of the T37-2s in a
Sierra 30m band module and two of the coils, L8 & L9 I think, came
up a little low in inductance (resonant frequency could not be brought
down enough). I removed the coils and measured them and they were a
little low, so I did the simplest thing and just added a few small caps
to the circuit.

I didn't have any other problems, and I will order from them again.

73, Rich W5RXP

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [4390] Re: Buckeye
Message-ID: <Pine.SOL.3.91.960217075125.17197E-100000@utkux4.utcc.utk.edu>

I have also ordered from Buckeye, getting good prices and fast service on
what I needed. In fact, I posed a question about a part not on the list,
and they found some at an estate sale and gave me a great price. I
cannot guarantee that they can do that every time, since it involved the
inverse of Murphy's Law (sometimes called surendipity). But they get an
affirmative vote on the question of being good folks to do business with.

-73-

LB, W4RNL

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: NONE <wynnt@utkux.utcc.utk.edu>
Subject: [4405] Re: Copyright
Message-ID: <Pine.SOL.3.91.960217132100.11854A-100000@utkux4.utcc.utk.edu>

Those who would cast their worthy pronouncements onto the internet, then
expect all those 17,000,000 surfers to protect them as their private
property, seem to be afflicted with an unhealthy overdependence on
miracles. Perhaps it has not occured to them that the internet now
touches cultures whose mores or ethics are not the same as theirs, where
terms such as intellectual property rights are as plausible as
flat earth theory. One should take safer measures and overtly
identify any posts they regard as their copyright, or even safer,
assume anything that one posts automatically becomes public domain
somewhere in this world.

-wynnt
just an analog guy in a digital world

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Jim Eshleman <lujce@hooch.CC.Lehigh.EDU>
Subject: [4412] Re: DXCC List
Message-ID: <96Feb17.203924est.57461-11573+4@hooch.CC.Lehigh.EDU>

Gang,

  Thanks to K5FO the DXCC list can be had via anonymous FTP:

     ftp://ftp.lehigh.edu/pub/listserv/qrp-l/misc/dxcc.ps

or via e-mail from the list server by sending the following command,
in the body of an e-mail, to listserv@Lehigh.EDU:

     GET QRP-L/MISC DXCC.PS

73
Jim N3VXI

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Jon Liechty <jliechty@indiana.edu>
Subject: [4403] Re: Filter out harmonics?
Message-ID: <Pine.HPP.3.91.960217120244.12688F@ophelia.ucs.indiana.edu>

I found a filter circuit in the 1994 _Handbook_, part of the Cubic Incher transmitter. I haven't had a chance to test it yet (have to get off my rear and order those toroid cores) but it should be fine if the figures they print are accurate.
-Jon WD9FEP

On Sat, 17 Feb 1996, Brian L. Lewis wrote:

> I just completed my first Homebrew transmitter! It is a very simple 1 transistor (2n3053) rig. I tracked down the parts and wound my first coil. And it works. It puts out about 500-750 mw at 7.040 mhz. Very exciting.
>
> However, it also puts out a good signal on 14.080, 21.120 and 28.160 (and above probably). Can anyone suggest a filter circuit to solve this problem. Or a source to find a schematic of such a circuit?
>
> Thanks for your help!
>
>
>

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Steve Silverwood <kb6ojs@earthlink.net>
Subject: [4401] Re: HW-9: to build or not to build
Message-ID: <199602171655.IAA19772@holland.it.earthlink.net>

The minute you go to sell the HW-9 you already have, send me a note. You can consider it sold on the spot!

At 09:02 2/17/96 EST, RobCap@aol.com wrote:
>Hi Folks-
>
>I've been fortunate to just acquire an unbuilt HW-9 along with three station accessories, also unbuilt.
>
>As mentioned on the QRP-L, I decided to leave my HW-8 unbuilt under the theory that it's almost 25 years old, is worth preserving the Heath legacy, and wouldn't be that hot a radio when finished.
>
>However, I plan to heat up the iron and commence building the HW-9 right away. It's only a few years old (so I don't feel guilty about building it),

>and the HW-9 is a good little rig that'll get plenty of air time.
>
>Once I make some progress building the HW-9, I plan to sell my other HW-9.
> It's in mint condition, and was recently sent off to RTO electronics for
>complete reconditioning. It's putting out 5-8 watts on all eight bands, and
>has a good little receiver.
>
>73,
>
>Rob
>
>
>
-- //Steve//

Computer Associates CompuServe: 76703,3035
Fax: 714/557-1675 Internet: kb6ojs@earthlink.net
Phone: 714/513-7236 America Online: KB6OJS
Homepage: http://ourworld.compuserve.com/homepages/KB6OJS

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Byron8LCZ@aol.com
Subject: [4406] Re: Kent keys?
Message-ID: <960217140307_146709922@mail06.mail.aol.com>

In a message dated 96-02-16 22:04:08 EST, you write:

>Could someone please post the address and phone number for Kent Keys? I
>wasn't able to find an ad in QST. Also, any pricing info you might have. I
>saw one at the last Norcal meeting and was very impressed.
>
>TNX es 72,
>Darrel, WD6BOR
>
>

At Dayton last year, Kent iambic keys were selling for 85 dollars, the year
before, they were 70 dollars.

Kent Keys:
R A Kent Engineers
P O Box 809
Mount Ida, Ar 71957-0809
501-867-4550

Their ad is in QST Mar 96 pg 172

72, Byron WA8LCZ

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Dick G0BPS <Dick@kanga.demon.co.uk>
Subject: [4387] Re: Low Power Communications books?
Message-ID: <I2ViWBAQB7IxEwuo@kanga.demon.co.uk>

In message <199602151658.LAA19825@nss2.CC.Lehigh.EDU>, Jim Lowman
<jlowman@iepsnet.com> writes
>Before Christmas, Rich put up a notice about availability of _Low Power
>Communications_ volumes I-III.
>Are these books still available to order?
>
>Thanks in advance, and 72/73
>
>de Jim - KF6CR
>
>

Hi Gang, If all goes well, we will have a new book on the G-QRP club booth at Dayton. called "Introducing QRP" it is designed for the UK market but will still be of interest to you foreigners in the US (HI) It covers 'What is QRP?', the 'History of QRP'   Boy are there some suprises in this chapter. Several other chapters of interest to the newby to QRP. Price not yet finally decided but will be abt $15.

It was written by the chap who has written the QRP column in UK Ham Radio Today magazine for the past five years. His name escapes me at this time, but I am sure if I look down a bit I will find it. His previous book, Pascoe's Penny Pinchers sold 50% of the first print run in two months.

TTFN ..

TTFN de Dick (QRP-L 206)

Dick Pascoe G0BPS / G0ROO KANGA PRODUCTS
The UK's Leading supplier of QRP kits.
Email to: Dick@kanga.demon.co.uk

and condoned by the boss
I AM THE BOSS!

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: N9DD@aol.com
Subject: [4404] Re: More on code practice
Message-ID: <960217125904_146673333@emout05.mail.aol.com>

In a message dated 96-02-16 13:19:13 EST, you write:

>OTOH, I find it easier to write in script for code praqctice. Not sure how it
>would be to start out this way....
>
>

Back in 1972, when I got my novice ticket, my CW speed rose in stairsteps. One of the biggest jumps up was when I switched from printing the text I was copying to writing it in script. There is a much more even flow to your writing and the copying that way. When printing, it is as if you hear the letter and pounce on the paper, relax and then pounce again. When writing in script, everything, including your state of mind, seems to smooth out. If you are printing your copy, give writing in script a try. You might be amazed at how much easier the copying becomes.

It was soon after making this move that I started learning the habit of copying behind. I believe that the two ideas may go hand in hand - the script helps reduce the mental work of copying and the increased ability to relax as you copy enables the realization that you don't have to write each letter as it is sent.

73,

Tom N9DD
South Bend, IN

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Jerry Marsh <jerrym@comtch.iea.com>
Subject: [4386] Re: Newsletter Articles
Message-ID: <Pine.SV4.3.91.960216231310.9092A-100000@comtch>

On Fri, 16 Feb 1996, Bob Scott wrote:

> Folks,

> I believe that this has been discussed before, but I cannot remember
> the outcome. What is the practice or rules concerning the publication of
> articles in a ham club newsletter that have appeared in a a different
> ham newsletter ? Does one write to the originator of the article for
> permission or the newsletter editor/publisher? I may be taking over
> my club's newsletter and one of the problems is the lack of contributors.
> Since tons of stuff flows by me between this list and the boatanchors
> list plus the several QRP newsletters/pubs I get, I figure I could do some
> backfilling without too much trouble. I just do not want to abuse it by
> including stuff without permission. Thanks.
>
> 73, Bob AC4QO ... AFA2CY Woodbridge, VA
>
>

The short answer is: ask the author

Having taken a one day course in copyright, and, having authored registered copyrighted material, and having studied the statues in USC 17, and having had my copyrighted material published in a commercial publication without compensation, I can tell you the following about copyright:

The originator of any original, creative work is protected by copyright (unless they are creating the work as an employee in which case the employer has the copyright).

Since the Berne convention agreement, the Copyright symbols and/or notation are NOT required to claim one's rights - i.e., the material IS copyrighted. However the use of the symbols does declare the owner's intent and will help establish willful copyright violation. That is to say, the failure to put copyright symbols and/or notation does not imply that the material is released to public domain.

The owner of the copyright may: 1) declare the work public domain which means they release all claim to the work, 2) sell the copyright to someone else, which also means they release all rights to the work in favor of the buyer, or 3) grant permission to publish with or without charges while still retaining ownership of the right.

Most club newsletters are implicitly the third case. QST, by the way, in their stated policy, requires #2 - that you sell all rights to them.

Copyrighted material can (and should if you want to protect its value) be registered with the Copyright Office, Library of

Congress. If you fail to do so within 3 months of its publication,
then any copyright violation occurring previous to its registration
can only result in claims for lost value of the copies made. No
criminal charges are possible, no statutory penalties, no payment
of lawyer's or other legal costs.

If the infringement is after the registration (or you register
within 3 months of publication), then criminal charges are
possible, collection of legal fees, statutory penalties can apply,
and seizure of copies and equipment can apply.

Incidently, there is a statutory penalty for removing the copyright
notice from material.

So, ask the author. He/she will either tell you: 1) it's public
domain, 2) they grant (or don't grant) you permission to publish,
or 3) they no longer own it - ask the new owner.

Jerry Marsh - AA7UF

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Frank Forsyth <aa8vn@sun.tir.com>
Subject: [4408] Re: Newsletter Articles
Message-ID: <9602171940.AA06268@sun>

>The short answer is:
>If the infringement is after the registration (or you register
>within 3 months of publication), then criminal charges are
>possible, collection of legal fees, statutory penalties can apply,
>and seizure of copies and equipment can apply.
>
>Incidently, there is a statutory penalty for removing the copyright
>notice from material.
>
>
>So, ask the author. He/she will either tell you: 1) it's public
>domain, 2) they grant (or don't grant) you permission to publish,
>or 3) they no longer own it - ask the new owner.
>
>Jerry Marsh - AA7UF
>
>Jerry, nice summary of Copyright Law. I once represented a fellow who like to
buy bootleg video movies at flea markets. He would make copies of the

movies to "loan" to his friends and only collect a "usage fee" of one dollar.
>One evening US Marshals arrived at his home and siezed 400 illegal tapes.
         He was NOT charges in a criminal indictment.
 It was in fact a suit for siezure and damages for copyright violations by Columbia Pictures, et. al.(a group of movie companies that fund prosecution of copyright violators). The statutory civil fine was TWO HUNDRED THOUSAND DOLLARS! The client agreed to pay $15000 and agreed not to copy or rent illegal tapes.

MORAL OF STORY: COPYRIGHTS LAWS ARE FOR REAL. IGNORE THEM AT YOUR PERIL.

72, AA8VN
 Frank Forsyth AA8VN Port Huron, Mi.
     MQRP #1200 NorCal#1204
     ARCI #8848 G-QRP

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: JKXM17A@prodigy.com (ALLEN SMITH)
Subject: [4409] Re: QRP Afield April 1996
Message-ID: <097.01426101.JKXM17A@prodigy.com>

Something like contesting on 30 meters? I don't care if "They" are allowing it, I will not do it.

Cordially,

Allen Smith - AA0YU

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Steven Wilson <randyw@crl.com>
Subject: [4410] Re: QRP Afield April 1996
Message-ID: <Pine.SUN.3.91.960217131101.7495A-100000@crl4.crl.com>

I agree - 30 meters is really a nice CW band and no one runs high power. Lets not mess it up with a contest. I feel the same way about 17 meters another nice band to run low power CW and work the world if you want.

A QRPer should be the last one wanting to dirty up a clean band with any type of contest after having to fight all the junk on 40 meters.

If you can not find a field where you can put up a 66 ft antenna maybe

you have not found the right field or you were just to lazy to look

de stan ak0b

On Sat, 17 Feb
1996, ALLEN SMITH wrote:

>
> Something like contesting on 30 meters? I don't care if "They" are
> allowing it, I will not do it.
>
> Cordially,
>
> Allen Smith - AA0YU
>
>
>

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: WILLIAM STUDLEY <AA1OC@gnn.com>
Subject: [4391] Re: Soldering
Message-ID: <199602171305.IAA20502@mail-e2a-service.gnn.com>

There's been a lot of good advice on soldering given here. I'd
just like to add my $0.02 worth.
Use a DAMP sponge, NOT a WET one!
  A wet sponge will lower the tip temp too quickly causing the
clading material to crack. This allows the base metal of the
soldering tip to combine with the soldered joint. <- read
contaminated.
  This type of damage (temp shock) to the tip may be microscopic,
but is very real. It's also one of the largest causes of tip
failure.
   So keep your tips clean, your wiring neat, your SWR low and have
FUN!
72 &73's
Bill, AA1OC
NEQRP, MIL-STD-2000 certified :-)

From qrp-l@lehigh.edu Sat Feb 17 22:24:32 1996
From: Chris Sieg <c_sieg@conknet.com>
Subject: [4397] RE: [4346] Re: QST construction article
Message-ID: <Chameleon.4.01.2.960217101602.c_sieg@PIEXX.conknet.com>

Hi Rich & List,
  I designed a circuit board for the AD7008 chip that included a 80C196 uP to perform the housekeeping chores. The board had
an interface for a 2X20 LCD module, a digital pot and some analog input channels. The advantage of the AD7008 over the Harris
chip seems to be the onboard D/A, an IQ modulator and the parallel data path. I wrote some code to do the simple frequency
selection stuff and simple AM modulation. I am hoping to use the setup to generate SSB (Hilbert xfrm?). If any one has
interest in this setup or can help with the SSB algorithms please feel free to contact me.

Thanks
-Chris

Name: Chris Sieg WA3LDI
E-mail: c_sieg@mail.conknet.com (Chris Sieg)